SOV/128-59-6-1/25

Casting Nodular Iron Crankshafts for Diesel Locomotives

少的形式的对应的可能是可以不好的的对象。

0,008% and the appearance of dots (i.e. magnesium sulphide) is prohibited. There are 3 photographs, 12 graphs and 3 diagrams.

Card 3/3

ROTENBERG, M.I., inzh.; SEMENOV, R.A., inzh.; BOGATYREV, V.G.

Automatic ultrasonic unit for checking bushings. Vest.mash.
(MIRA 12:4)
39 no.3:43-45 Mr '59.
(Ultrasonic waves--Industrial applications)

18(5,7) SOV/128-59-5-4/35

AUTHOR: Soldatenko, V.I., and Rotenberg, M.I., Engineers

Method of Minimizing Non-Metalic Inclusions in TITLE:

Magnesium Iron

PERIODICAL: Liteynoye Proizvodstvo, 1959, Nr 5, pp 7-8 (USSR)

ABSTRACT: In the Diesel locomotive engine plant at Kolombesk,

it rather often happened that non-metallic inclusions took place when using magnesium iron. The ratio of the magnesium contents in the iron to the depth of the non-metallic inclusions can be seen in Fig.(1). The non-metallic inclusions can be seen in Fig.(1). The new method for removing the non-metallic inclusions is based on the process of heating 70% of the iron which has to be treated with magnesium up to 1450-1460°C. in an electro-furnace and 0.4 -0.5% magnesium are added. The remaining 30% of the cast iron is heated up to 1550-1600°C. After cooling down the iron which has been treated with magnesium to 1380 - 1400°C both parts are cast together, a temperature of 1450°C. resulting. At this temperature a dry piece of wood

Card 1/2

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SOV/128-59-5-4/35

Method of Minimizing Non-Metallic Inclusions in Magnesium Iron

is drawn through the molten mass for 2-3 minutes. At a temperature of 1390 - 1420°C the treated thus iron is cast into molds. There are 1 diagram and 5 Soviet references

Card 2/2

KOTENBERG, M.I.

X-ray image of the esophagus in the elderly individual. Vest.
rent. i rad. 39 no.5:65 S-0 '64. (MIRA 18:3)

1. Rentgeno-radiologicheskoye otdeleniye (zav. M.I. Rotenberg)
Khar'kovskoy oblastnoy klinicheskoy bol'nitsy.

SOV/128-59-10-7/24

12(4,5)
AUTHORS:

Rotenberg, M.I., and Zapol'skaya, A.V., Engineers

TITLES

Nitrogenizing of Diesel Locomotive Cast Iron Crankshafts

PERIODICAL:

Liteynoye proizvodstvo, 1959, Nr 10, pp 24-27 (USSR)

ABSTRACT:

The authors present a report on experiences of nitrogenizing cast iron for diesel locomotive crankshafts. In the Kolomenskiy teplo-vozostroitel nyy zavod (Kolomna Diesel Locomotive Factory), the engine for a new, high power trunk line diesel locomotive is planned with a cast crackshaft of magnesium cast iron. To find optimum conditions for the mitrogenizing, and to determine parameters for the hardness and depth of the nitrogenized ply, laboratory experiments were made. Parallel with this, the influence has been examined of: 1) The nitrogenizing temperature; 2) the microstructure and hardness of a) the surface layer and b) the core on:

1) the mechanical qualities of the core and 2) their way of changing. For the elaborating of the processes, the necessity of a ply depth up to 0.4 mm with a surface hardness of at least 450 Hy was assumed. Table 1 shows the chemical composition of the tested sam-

Card 1/2

SOV/128-59-10-7/24

Nitrogenizing of Diesel Locomotive Cast Iron Crankshafts

ples. The samples were nitrogenized in a laboratory furnace with a muffle of 280 mm diameter and 350 mm depth. The temperature was regulated automatically. Each one of the samples was nitrogenized under the same condition, after a different preliminary heat treatment. The results of the tests are shown in table 3. Table 4 gives data on the definition of mechanical qualities of the core. At the present time, performance tests are being conducted with the cast iron, and nitrogenized crankshafts of engine D-45. There are 2 photographs, 1 diagram, 3 graphs and 4 tables.

Card 2/2

SOV/122-59-3-13/42

AUTHORS: Rotenberg, M.I., Semenov, R.A. (Engineers) and Bogatyrev, V.G.

An Automatic Installation for the Inspection of Bearing Inserts by the Ultrasonic Method (Avtomatizirovannaya TITLE:

ustanovka dlya kontrolya vkladyshey ulitrazvukovym

PERIODICAL: Vestnik Mashinostroyeniya, 1959, Nr 3, pp 43-45 (USSR)

ABSTRACT: To inspect bi-metal bearing inserts for full adhesion

with the anti-friction layer, ultrasonic detection by probes with rubber diaphragms was used at the Kolomna

Diesel Locomotive Works (Kolomenskiy Teplovozostroitel'-nyy Zavod) "Imeni V.V.Kuybysheva" as described in

"Vestnik Mashinostroyeniya, 1957, Nr 9. depended on the operator's skill. The rubber diaphragm

had a short service life. An insert of 250 mm diameter and 150 mm length took 15 minutes to inspect. After testing various modifications, the present authors have

developed an automatic installation consisting of an ultrasonic detecting unit, type 86IM2, an electronic signal emitter, a rotating bath filled with liquid and

Card 1/3 a lifting mechanism. After immersing the insert to be

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SOV/122-59-3-13/42

An Automatic Installation for the Inspection of Bearing Inserts by the Ultrasonic Method

inspected into the liquid bath, the probes attached to fittings on a rack are lowered to the level of the bottom face of the insert. When the bath is rotated and the rack displaced vertically, the ultrasonic ray describes a helical line in relation to the insert. A defect is recorded on the cathode ray tube screen of the ultrasonic unit and simultaneously by the electronic signal emitter which lights up an indicator lamp. The block diagram of the installation is shown in Fig 2 and a description of the general layout is given. Water has replaced transformer oil as a bath liquid, because the splashing of the oil spoils the cleanliness of the installation. necessitated a special probe design. Moreover the demand for increased sensitivity called for a replacement of quartz plates with barium titanate having a much greater piezo-electric effect. The 12 mm diameter, 1 mm thickness barium titanate plate is bonded to the probe Card 2/3 face with phenolic or epoxide resin. The probe design is shown in cross-section in Fig 3. An output signal of

sov/122-59-3-13/42

An Automatic Installation for the Inspection of Bearing Inserts by the Ultrasonic Method

several volts is obtained which deflects the cathode ray and is used as an input to the electronic signal emitter, the circuit of which is shown in Fig 4. The emitter constitutes a trigger system. After triggering, the circuit is returned to the initial state by a push button. The signal emitter was necessary because of the excess-ively short duration of a defect impulse, incapable of operating an electromagnetic relay. To detect defects below 0.8 cm², special step-down probe fittings are required (illustrated in Fig 5).

Card 3/3 There are 5 figures, including 1 photograph.

LIFANOV, V.4., kand. tekhn. nauk, dotsent; DORM, A.G., inzh.; ROTENBERG, M.I., inzh.

Method for the automatic synchronization of synchronous machines. Izv. vys. ucheb. zav.; energ. 7 no.10;84-87 0 164. (MIRA 17;12)

1. Chelyabinskiy politekhnicheskiy institut.

SOV-128-58-7-18/20

AUTHORS:

Rotenberg, M.I., and Soldatenko, V.I., Engineers

TITLE:

Letter to Editors (Pis'mo v redaktsiyu)

PERIODICAL:

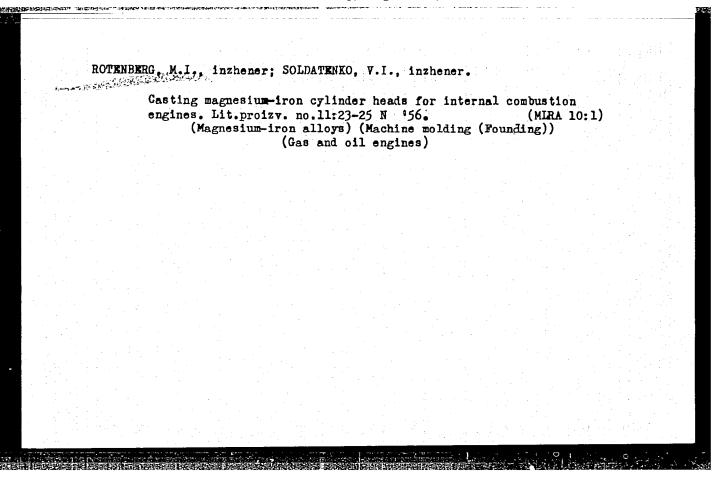
Liteynoye proizvodstvo, 1958, Nr 7, p 32 (USSR)

ABSTRACT:

This is a letter of justification by the authors who had published an article "Casting Complex Parts of Magnesium Iron", in "Liteynoye proizvodstvo", Nr 2, 1955, and were accused by Bobrov and Zimin of presenting the work of others as their own.

1. Iron-magnesium alloys-Casting

Card 1/1



SOLDATENKO, Vledimir Ivanovich; ROTENBERG, Moisey Isakovich; GRUSHEVSKAYA, G.M., redaktor izdatel stva; MODEL; B.I., tekhnicheskiy redaktor

[Experience in introducing new founding techniques] Opyt vnedreniia novoi liteinoi tekhnologii. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1957. 70 p. (MIRA 10:5) (Founding)

ROTENBERG, M.I.; RADETSKIY, F.P. (Kherson)

Case reports of primary cancer of the lower portion of the duodenum.
Klin.med.34 no.11:67-69 N '56. (MIFA 10:2)

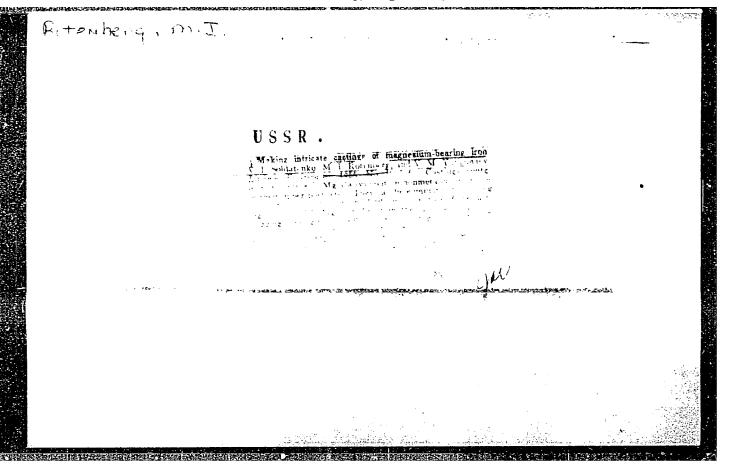
1. Iz Gorodskoy bol'nitsy No.1 Khersona (glavnyy vrach N.N. Gerasimenko)

(DUODENUM, neoplasms diag. of cancer of lower portion)

ROTENBERG, M.L., MEL'NIKOVA, Ye.A.; POLYAKOV, Ya.G., inzhener, redaktor; GOLOVIN, S.Ya., inzhener, redaktor; TIKHONOV, A.Ya., tekhnicheskiy redaktor.

[Mastering the casting of crankshafts from spheroidal graphite iron]
Osvoenie otlivki kolenchatykh valov iz chuguna so sferoidal'nym
grafitom. Moskva, Gos.nauchno.-tekhn. izd-vo mashinostroit. i
sudostroit. lit-ry, 1954. 16 p. (Moscow. Vsesoiuznyi proektno-tekhnologicheskii institut. Obmen tekhnicheskim opytom, no.13)
(MLRA 9:8)

(Cranks and crankshafts) (Founding)



ROTENBERG, M.I. (Poltava)

Diagnosis of diverticuli of the esophagus. Klin.med. no.10:148-153 '61. (MIRA 14:10)

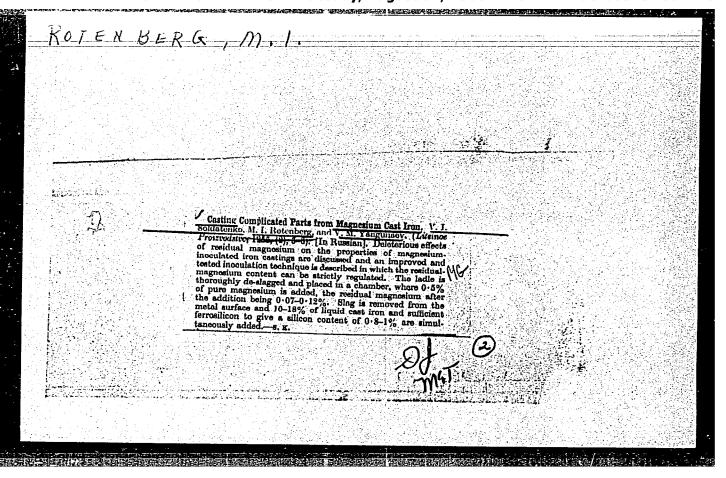
1. Iz rentgenomadiologicheskogo otdeleniya (zav. M.I. Rotenberg)
Poltavskogo oblastnogo onkologicheskogo dispansera (glavnyy vrach
S.I. Moiseyev, nauchnyy rukovoditel' - zasluzhennyy deyatel' nauki
prof. S.A. Reynberg).

(ESOPHAGUS--DISEASES)

ROTENBERG, M.I.													
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81 	72* Casting of Complex Machine ist Iron, Utili kin sloading kh deta'el i iussian.) V. L. Soldatenko. M. L. gumaev. Liteinae Proizvodstvo; 195 ethod of alloying and casting. Table,			
		^	8 ^L	

KOTENBERG		11
	1402 Making Hollow Cores in Small-Scale Production U	
	Izgotovienie obolochkovykh sterahnei pri melkoseritiom i C proizvodstve. (Russian.) M. L. Rotenberg, V. I. Soldatenko. and A. P. Shkarin. Liteinos proizvodstvo, 1955, no. 10, Oct., p. 1-3.	
	Describes application of casing molds for small-scale mass- <u>cast</u> ing. It is very economical for production line use, as well as for small-scale operation. Gives details of mechanization of the above process. Tables, diagrams, photograph.	



ROTENBERG, M.I.; SOLDATENKO, V.I.; MEL'NIKOVA, Ye.A.

Technology of founding magnesium cast iron crankshafts. Lit.proizv.
no.9:22-24 S'55.
(MLRA 8:12)
(Iron-magnesium alloys) (Granks and crankshafts)

SOIDATENKO, V.I.; ROTENBERG, M.I.; YANGUNAYEV, V.M.

Casting complicated parts from magnesium-iron alloy. Lit.proizv.
no.2:5-6 F '55.

(Iron-magnesium alloys) (Founding)

ROTERBERG, M. M.

Ivanitskaya, G. S. and Rotenberg, M. H. "On the relativistic theory of the optical vortex effect," Trudy Fiz.-tekhn. in-ta (Akad. nauk Uzbak SSR(, Vol II, Issue 2, 1949, p. 67-71

SO; U-5241, 17 December 1953, (Letopis 'Zhurnal 'nykh Statey, Mo. 26, 1949)

<u>L 38665-66</u>

ACC NR: AP6017627

(A)

SOURCE CODE: UR/0113/66/000/002/0027/0030

AUTHOR: Rotenberg, R. V. (Doctor of technical sciences); Burlachenko, K. I.

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ORG: None

47

TITLE: Physiological criteria for smoothness of automobile operation

SOURCE: Avtomobil'naya promyshlennost', no. 2, 1966, 27-30

TOPIC TAGS: physiology, accelerometer, automotive industry, oscillograph, vehicle

ABSTRACT: The authors give the results of tests for determining the physiological criteria for smoothness of automobile operation as experienced by man. One of the main criticisms of the work done so far is the use of artificial measuring devices instead of human reactions. The tests carried out by the authors included 36 men from 20 to 50 years of age. Vertical acceleration was recorded at the head and spine. Pickups were glued to the head and spine and their signals were transmitted to an oscillograph. The first stages of the testing included periodic action such as appears in walking or running at various speeds. The second stage tested unique actions such as jumping from various heights. Graphs are given of the various oscillograms. It can be seen from the curves that vertical acceleration for man changes according to an anharmonic law. The mechanics of walking are discussed. Statistical methods were

Card 1/2

UDC: 629.113:62-58.001.5

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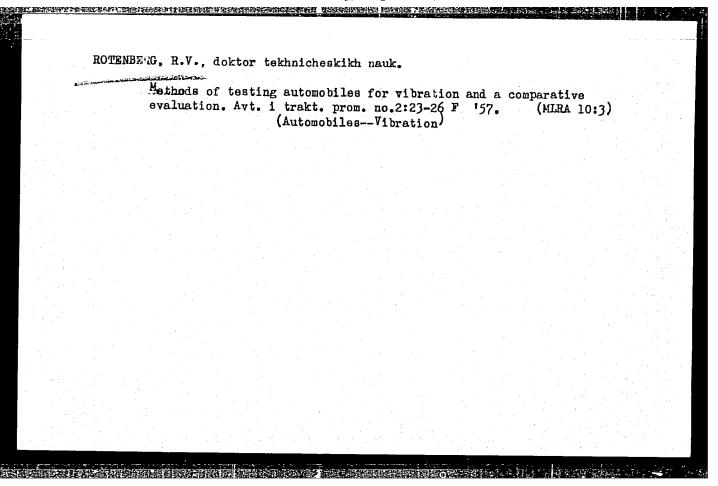
1 38685-66

ACC NR: AP6017627

used for data analysis. The accumulated data are used to set up a scale of criteria for smoothness of operation in evaluating automobile suspensions and other devices of this type. The upper permissible limit of acceleration for man in the case of unique action is 2.8-3.0 g. The results show that physiological criteria for smoothness of automobile operation should account for the acceleration which is experienced by man under ordinary circumstances such as walking, running and jumping. Man senses motion through his head, and the neck acts as a flexible connection through which vibration is transmitted to the body. The permissible acceleration for the body, not the head, must be considered in order to avoid exaggeration of the requirements for automobile operating smoothness. A frequency range of 1.7-3.0 cps is characteristic of man's most natural motion -- walking. Vertical acceleration during relaxed walking was set as the comfort limit. Acceleration during average fast walking may be used as the limit for comfortable travel. The upper limit for acceleration should be based on the transition from walking to running. The qualitative recommendations for a man of 20 to 50 years are: comfort limit ±0.23 g; limit of comfortable travel ±0.75 g; The permissible limits for smoothness of operation in a course of action of short duration are G.1 g for upward motion of the body and 1.7 g for downward motion of the body. The upper permissible limit for unique action is 2.8-3.0 g for downward motion of the body. While the work was done to estimate operational smoothness in automobiles, it should also be applicable to other purposes. Orig. art. has: 6 figures.

SUB CODE: 13. 06 SUBM DATE: none/ ORIG REF: 001/ OTH REF: 001

Card 2/2 2C



ROTENRERG, R.V., kand.tekhn.nauk

Transient vibrations of automobiles. Avt.i trakt.prom. no.8:14-20
Ag '57.

(Automobiles--Vibration)

(Automobiles--Vibration)

GOL'D. Boris Vasil'yevich, dots.; FAL'KEVICH, Boris Semenovich, prof.;
LIPGART, A.A., prof., retsenzent; TSIMBALIN, V.B., dots., retsenzent;
ROTENDEEG, R.V., doktor tekhn.nauk, red.; MAKHIMSON, V.A., red.izd-va;
TIKMANOV, A.Ta., tekhn.red.

[Theory, construction, and design of sutomobiles] Teorite, konstruirovanie i raschet avtomobilia. Moskva, Gos. nauchno-tekhn.izd-vo
mashinostroit. lit-ry, 1957. 535 p. (MIRA 11:3)

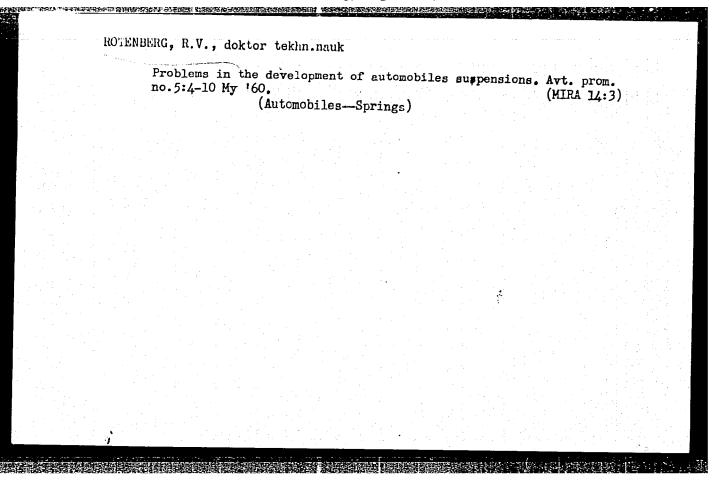
1. Kafedra kolesnykh mashin Moskovskogo vysshego tekhnicheskogo
uchilishcha imeni Baumana (for Lipgart). 2. Kafedra avtomobiley
Gor'kovskogo politekhnicheskogo institute (for TSimbalin)
(Automobiles--Design and construction)

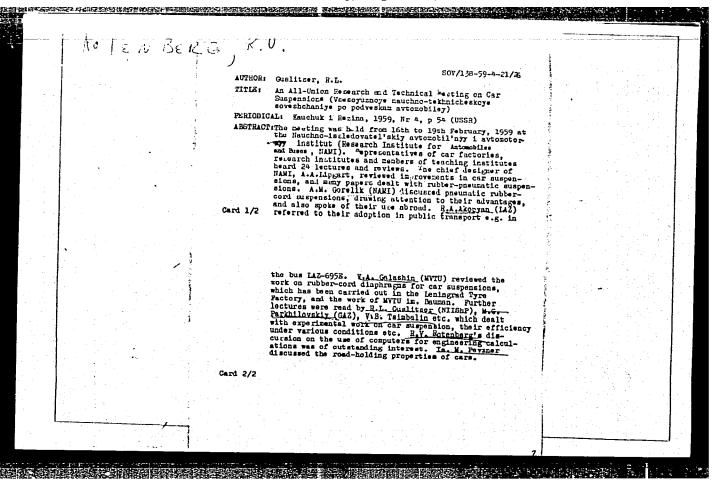
LITVINOV, A.S.; ROTENBERG, R.V.; FRUMKIN, A.K.; FAL'KEVICH, B.S., doktor tekhn. nauk, retsenzent; PETROV, V.A., kand. tekhn. nauk, retsenzent; VOLKOV, P.M., doktor tekhn nauk; YEGORKINA, L.I., red.izd-va; MODEL', B.I., tekhn. red.

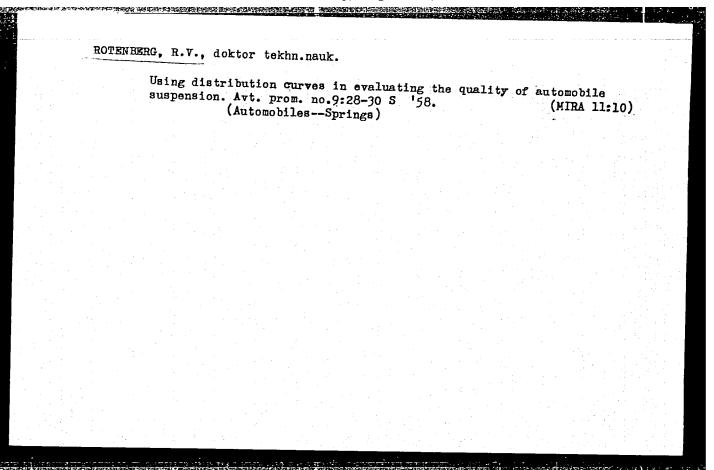
[Motor-vehicle chassis; construction and elements of design] Shassi avtomobilia; konstruktsiia i elementy rascheta. Moskva, Mashgiz, 1963. 502 p. (MIRA 16:12) (Motor vehicles—Design and construction)

ROTENBERG, R.V., doktor tekhn. nauk

Using electronic computers in developing the theory of motor vehicles. Avt. prom. 31 no.9:28-33 S '65. (MIRA 18:9)







SOV-113-58-9-10/19

AUTHOR:

Rotenberg, R.V., Doctor of Technical Sciences

TITLE:

On the Evaluation of the Quality of Suspension of the Automobile by the Aid of Distribution Curves (Ob otsenke kachestva podveski avtomobilya s pomoshch'yu krivykh raspredeleniya)

PERIODICAL:

Avtomobil'naya promyshlennost', 1958, Nr 9, pp 28-30 (USSR)

ABSTRACT:

The accelerograms obtained by M.I. Briskin, D.V. Gel'fgat, Ya.M., Pevzner, and A.A. Tikhonov in their theoretical and practical study of the dynamic loads appearing in truck bodies during driving on poor roads are not suitable for an evaluation of the results of trials and quality of the suspension and comparison of the smooth running of diverse automobiles. This was demonstrated by the author's tests of light cars on roads with uneven surfaces. The use of distribution curves evaluates the influence of the speed on the intensity of the fluctuations and the quality of the suspension of diverse automobiles. Experimental results con-

Card 1/2

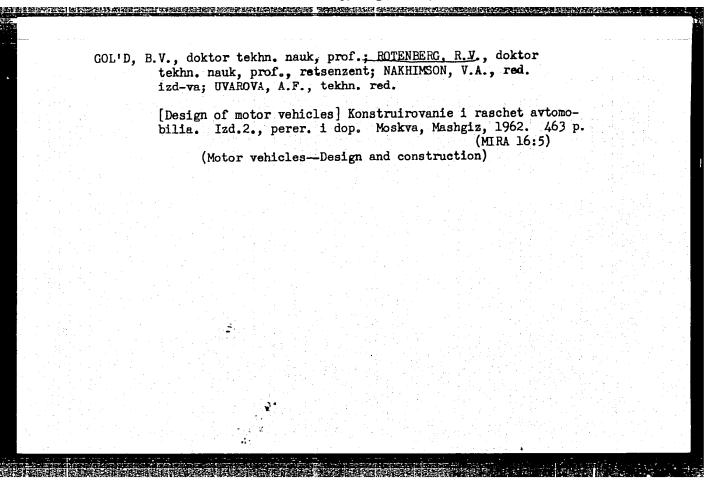
SOV-113-58-9-10/19

On the Evaluation of the Quality of Suspension of the Automobile by the Aid of Distribution Curves

> cerning the ZIL-151 and GAZ-63 are presented (Table 1). There are 4 graphs and 1 table.

- 1. Automobile industry--USSR 2. Automobiles--Test results
- 3. Dynamics--Applications

Card 2/2



ROTENBE	RG, R.V., doktor	tekhn.nauk
	Characteristics 29 no.2:30-35 F	of vibrations of multiaxle motor vehicles. Avt.prom. 163. (MIRA 16:2) (Motor vehiclesVibration)

ROTENBERG, R.V., doktor tekhn. nauk

Electronic computers and technical development in the automobile industry. Avt. prom. 29 no.4:1-6 Ap '63. (MIRA 16:6)

(Automobile industry)
(Electronic computers)

RAVKIN, Genrikh Oskarovich; ROTENBERG, R.V., doktor tekhn. nauk, retsenzent; LAPIN, A.A., kand. tekhn. nauk, red.; EL'KIND, V.D., tekhn. red.

[Pneumatic suspension of motor vehicles] Pnevmaticheskaia podveska avtomobilia. Pod red. A.A.Lapina. Moskva, Mashigz, 1962. 287 p. (MIRA 15.6)

(Motor vehicles--Springs)

ROTENBERG, Robert Vladimirovich; PEVZNER, Ya.M., doktor tekhn.nauk, retsenzent; SOBOL3V, O.K., inzh., red.; IVENSKAYA, N.D., red.izd-va; SOKOLOVA, T.F., tekhn.red.

[Automobile suspension and vibration] Podveska avtomobilia i ego kolebaniia. Izd.2., perer. i dop. Moskva, Gos.nauchnotekhn.izd-vo mashinostroit.lit-ry, 1960. 354 p.

(Automobiles--Springs)

(MIRA 13:11)

ROTENBERG, R.V., doktor tekhn. nauk.

Using electronic calculating machines and models in studying vibrations of automobiles. Avt. prom. no.1:5-9 Ja '58. (MIRA 11:2) (Automobiles--Vibration) (Electromechanical analogies)

ROTENHERG. R.V., doktor tekhnicheskikh nauk.

Stand testing of automobiles for contnuous vibration. Avt.i trakt.prom. no.11:19-22 N '56. (MLRA 10:1) (Automobiels--Vibration)

ROTENBERG, R.V., doktor tekhnicheskikh nauk.

Migineering methods of calculating automobile vibration. Avt. i. trakt.
prom. no.9:13-17 S '56.
(Automobiles--Vibration)

(Automobiles--Vibration)

More about the problem of automobile suspensions. Avt. prom. 27 no. 5:8-10 My '61. (MIRA 14:5)
(Automobiles—Springs)
연구에 그는 바람은 하루에 대한 민국은 끝하면요일 회사에는 다른 글로 하다가 걸

ROTE: BERG, Robert Vladimirovich, prof.; MASHCHENKO, A.F., red.; GALAKTIONOVA, Ye.N., tekhn. red.

[What makes an automobile ride smoothly] Plavnost' khoda avtomobilia. Moskva, nauchno-tekhn. izd-vo M-va avtomobil'nogo transp. i shosseinykh dorog RSFSR, 1961. 78 p.

(NIRA 15:2)

(Automobile engineering)

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ROTENBERG, Samuel; BARANOWSKI, Stanislaw

Fat and cholesterol contents of milk of cows in beginning and final stages of milking. Acta physiol. Pol. 16 no.3: 465-473 My-Je '65

1. Katedra Fizjologii Zwierzat Wyzszej Szkoly Rolniczej w Szczecinie (Kierownik Katedry: doc. dr. S. Rotenberg).

FELINSKI, L. ROTENBERG, S.; BARANOW-BARANOWSKI, St.

Daily oscillations in motor activity of the rumen in sheep. Acta physiol. polon. 10 no.3:365-374 May-June 59.

1. Z Katedry Fizjologii Zwierzat W. S. R. w Szczecinie.

(PERIODICITY) (STOMACH, physiol.)

SAWIFORL, Arkadiusz; ROTENBERG, Samuel

earrangement for the second of the second second

Effect of bathing eggs in cobalt salt solutions on the cobalt content of indivudual organs and growth of chicks. Acta physiol. Pol. 14 no.4:441-453 J1-Ag *63.

1. Z Katedry Ogolnej Hodowli Zwierzat Whzszej Szkoly Rolniczej (Kierownik: dr. A. Kawecki) i z Katedry Fizjologii Zwierzat Wyzszej Szkoly Rolniczej w Szczecinie (Kierownik: doc. dr. S. Rotenberg.

ROTENBERG. S.; KAVENTSKIY, A. [Kawecki, A.]

Enriching poultry meat with cobalt. Vop. piz. 23 no.1:83-84
Ja-F '64. (MIRA 17:8)

1. Iz kafedry fiziologii zhivotnykh (zav. - kand. biolog. nauk S. Rotenberg) i kafedry razvedeniya zhivotnykh (ispolnyayushchiy obyazannosti zaveduyushchego kand. biolog. nauk A. Kaventskiy) Sel'skokhozyaystvennogo instituta, TSchetsin, Pol'sha.

CONTROL OF THE SECOND PROPERTY OF THE SECOND

ROTENBERG, S. I.

was gulyan gogin nga sari landas kadanistan kalans

Syndrome of circulatory disorders in cerebral tumors.

Nevropat. psikhiat., Moskva 19 no.4:59-64 July-Aug. 1950
(CLML 20:1)

1. Of the Clinic for Nervous Diseases (Head -- Honored Worker in Science Prof. I. N. Filimonov, Corresponding Member of the Academy of Medical Sciences USSR), Second Moscow Medical Institute imeni I. V. Stalin.

ROTENBERG, S.I.

Clinical aspects of tuberculous meningitis in adults. Klin. med., Moskva 31 no.4:40-44 Apr 1953. (CIML 24:4)

1. Of Moscow Clinical Hospital imeni Soyuz Medsantrud.

ROTENBERG, S.I. Clinical aspects of tuberculous meningitis in adults. Klin.med. 34 no. 4:40-44 Ap '53. 1. Moskovskaya klinicheskaya bol'nitsa imeni soyuza Medsantrud. (Meninges--Tuberculosis)

ROTENEERG, S.N., inzh.; SLOUSHCHER, K.M., inzh.

Inertial-precipitation chamber designed to prevent ash wear of feed-water economizers. Elek. sta. 34 no.3:17-20 Mr 163. (MIRA 16:3)

(Boilers)

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						(MIRE 18910)
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	100					
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WOLCHOK, V.I., inzh.; PAPSHCHIK, S.A., kand. tekhn. nauk; POTENBERG, V.Ye., inzh.

Building and designing a compressor for raising the pressure of compressed air at the face. Trudy VNIIONSHSa no.15:135-149 '64.

(MIRA 18:2)

ACC NR: AP6035591

SOURCE CODE: UR/0364/66/002/011/1343/1345

AUTHOR: Levina, S. D.; Astaknov, I. I.; Lobanova, K. P.; Rotenberg, Z. A.

ORG: Institute of Electrochemistry, Academy of Sciences, SSSR, Moscow (Institut elektrokhimii Akademii nauk SSSR)

TITIE: Crystalline structure of phthalocyanine and the conductivity of systems which consist of metal coated with phthalocyanine film

SOURCE: Elektrokhimiya, v. 2, no. 11, 1966, 1343-1345

TOPIC TAG: phthalocyanine, crystal structure analysis, cobalt, semiconducting film, nickel

ABSTRACT: The author report that the electrophysical properties of metal powders or polished metals coated with thin phthalocyanine films are being studied at their laboratory. The films are obtained by treating metals with phthalonitrile vapors at temperatures from 250 to 400C. The systems obtained have differing crystalline structure (α and β modifications) and varying semiconducting properties. The purpose of the present study was to investigate the structure of the films and to coordinate the data obtained with the conductivity. Cobalt and nickel were selected as substratum metals. The results obtained indicate that there is no

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CIA-RDP86-00513R001445

LEF(e)/___(m) £ 33167-66 ACC NR AP6019240 SOURCE CODE: UR/0364/66/002/003/0351/0353 AUTHOR: Krishtalik, L. I.; Rotenberg, Z. A. ORG: Institute of Electrochemistry, Academy of Sciences, SSSR, Moscow (Institut elektrokhimii Akademii nauk SSSR) TITLE: A study of the anodic oxidation kinetics of graphite SOURCE: Elektrokhimiya, v. 2, no. 3, 1966, 351-353 TOPIC TAGS: graphite, anodic oxidation, kinetics, anode polarization, electrode, oxide formation, acid solution, electrochemical analysis, electrode potential, electric polarization, acid base equilibrium ABSTRACT: Electrochemical oxidation of graphite was studied by analyzing polarization curves. Electrodes, fashioned into 1.5 x 1.5 x 0.5 cm spatulas from DEZ graphite, were polarized on both sides in phosphoric acid and phosphate buffer solutions, the latter sometimes containing 0.2 M Na₂SO₄. The polarization curves exhibited a semilogarithmic dependence (φ -voltage as a function of log(i) - a/cm³) with a slope b ranging from 160 to 180 mv. At a potential of 1.3 v relative to a water electrode in the same solution, the activation energy was 15 kcal. Similar values of b were obtained for different pH in base electrolytic solutions of 5 and 3 M perchlorate and 1.5 and 2 M sulfate. Composite data for the dependence of potential on pH in various solutions (3 M PO3, 5 M ClO4 and 1.5 M SO2) were presented. In some pH regions, for Card 1/2

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The second secon			
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	trode potential dropped abo	out 0.06 v per unit	ent of DH
all of the solutions, the electin pH. In the sulfate and percentage below pH = 1. A gas analysis solution and a contents an order	chlorate solutions the pote	ential was independ	to be CO2,
in pH. In the Surface and P	showed the principal produ	clat the one ratio	onalized by
below pH = 1. n gas ande	er lower. The polarization	i curii on where i	km / ∂vH =
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assuming either slow decomp	a description of CO2 upon of	IVISION OF	jection of
0.06 v) or Slow electrochamber	he graphite surface on ans	to the mol	arization
assuming either slow decomposite 0.06 v) or slow electrochemical $(\partial \varphi / \partial \rho H = 0)$. The effect of the ions and molecules between graphins and molecules between graphins and molecules between graphins are some some statement of the statement	phite lattice planes were	Onia ant has:	2 figures.
ions and molecules between grant	solutions at pH = 1 and 3.	Orig. are	
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<u>62952-65</u> — EWT(m)/EPF(c)/EWP(j)/EWA(c) I CESSION NR:: AP5020389	621.315.592:547
JTHOR: Rotenberg, Z. A.; Levina, S. D.	/6
ITLE: Rectifying action of phthalocyanine	
OURCE: Elektrokhimiya, v. 1, no. 8, 1965	, 993-996
OPIC TAGS: phthalocyanine, rectification	, electric property, platinum, mickel,
hthalocyanine was deposited in the vacuum	nto which the glass plate was immersor
Powdered nickel and then nickel property of the new preparing the Ni-Ni phthalocyanine-Hg systomeraparing the results show essentially	em. The measurements were made in all
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ACCESSION NR: AP5020389

tric films may be observed with two contacts, one of which is capable of injecting carriers into the dielectric while the other has no such properties or has them to a lesser extent. The current corresponding to the motion of carriers from the injecting contact into the film increases greatly with increase in potential and under certain conditions is limited by the space charge. In this region the current increases as the square of the potential. In the case of the two systems investigated here, injection of carriers takes place from both electrodes, but to a different extent. It is difficult to evaluate which of the electrodes injects carriers since it is necessary to know the work functions for electron emission from the metals and from nickel phthalocyanine. Heating the film reduces the electrical resistance. This reduction in resistance may be caused by a reduction in AE during heating of the film. Orig. art. has: 4 figures.

ASSOCIATION: Institut elektrokhimii Akademii nauk SSSR (Institute of Electrochemistry, Academy of Sciences SSSR)

SUBMITTED: 18Feb65

ENCL: 02

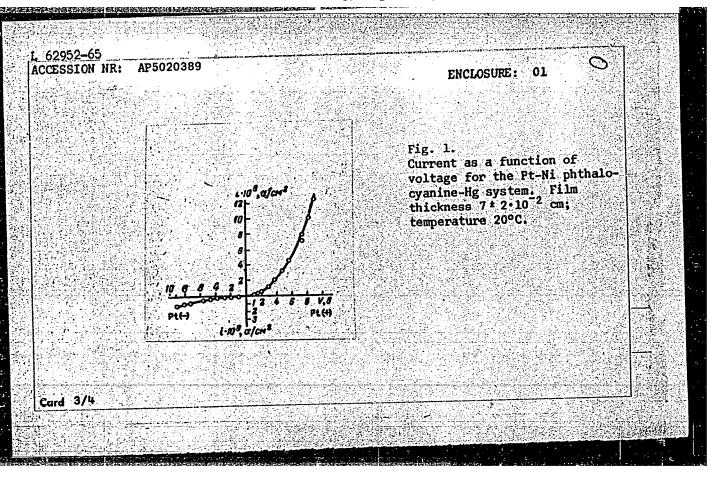
SUB CODE: EM, SS

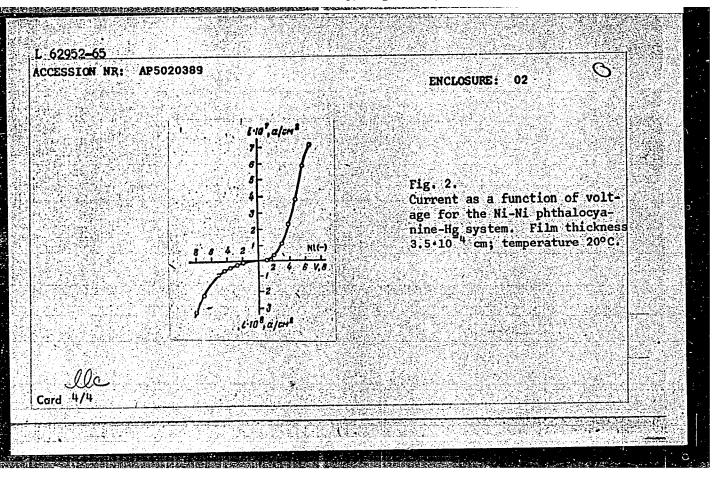
NO REF SOV: 003

OTHER: 006

Card 2/4

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445





IEVINA, S.D.; RUTENBERG, Z.A.; LOBANOVA, K.P.; ASTAKHOVA, I.I.

Electrophysical properties of systems consisting of powderlike metals and organic semiconductors. Zhur.fiz.khim. 39 no.7:1760-1763 Jl 165. (MIRA 18:8)

1. Institut elektrokhimii AM SSSR.

KRISHTALIK, L.I., ROTENIERG, Z.A.

Overvoltage of the anodic evolution of chlorine on graphite.

Part 1. Zhur. fiz. khim. 3' no.21323-334 F '65. (MiRA 18:4)

1. Gosudarstvennyy komitet khimicheskoy i neftanoy promyshlennosti, Moskva.

ROTENBURG, I.S., dots., kand. tekhn. nauk; POLYAKOV, M.P., otv. za vypusk; ZENIN, V.V., tekhn. red.

[Problems of the hydraulic design and designation of spans of bridges crossing lowland rivers] Voprosy gidravlicheskogo rascheta i naznacheniia otverstii mostov na perekhodakh cherez ravninnye reki. Saratov, Izd-vo Saratovskogo univ., 1960. 231 p. (MIRA 14:11) (Bridges—Design)

e in the light of the last of

ROTENBURG, Iosif Solomonovich, kand. tekhn. nauk, dots.; FOLYAKOV, Mikhail Pavlovich, kand. tekhn. nauk, dots.; ZOLOTAREV, Nikolay Vasil'yevich, kand. tekhm. nauk, dots.; LAVROVSKIY, Vadim Aleksandrovich, inz'. DADENKOV, Yu.N., doktor tekhn. nauk, prof., retsenzent; BEGAM, L.G., kand. tekhn. nauk, retsenzent; BORODINA, N.N., red.

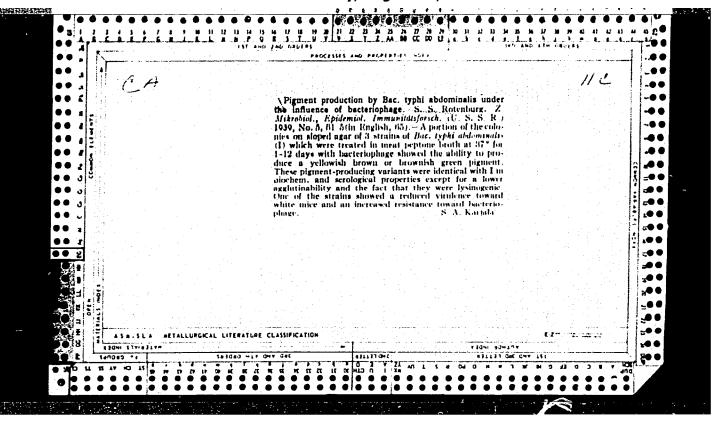
[Designing bridge crossings over large streams] Proektirovanie mostovykh perekhodov cherez bol'shie vodotoki. Moskva, Vysshaia shkola, 1965. 335 p. (MIRA 18:6)

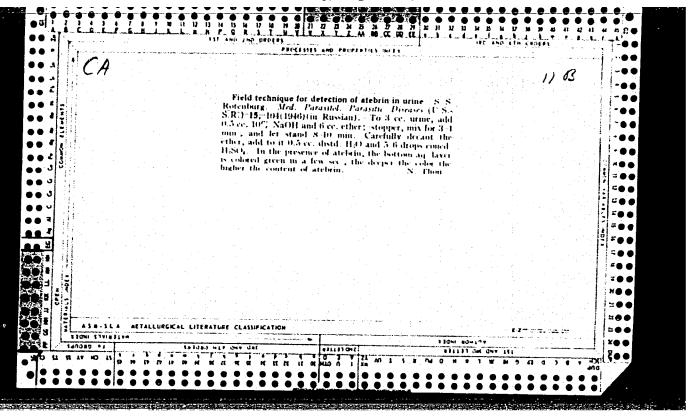
l. Chlen-korrespondent AN Ukr.SSR (for Dadenkov). 2. Ruko-voditel' laboratorii mostovoy gidravliki i gidrologii TSental'nogo nauchno-issledovatel'skogo instituta svyazi (for Begam).

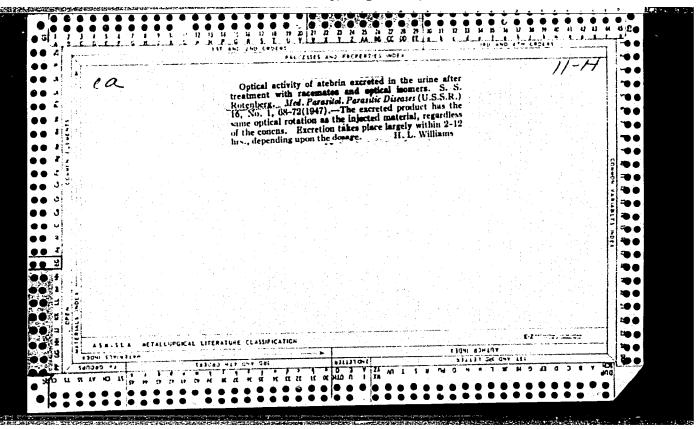
ROTENBURG, L. M.

"Experimental Investigation of Steel Lines and the Analytical Calculation of Short-Circuit Currents in Complicated Networks with Steel Lines." Official opponents:
N. N. Shchedrin, Professor, doctor of Technical Sciences and G. R. Rakhmov, Docent. Candidate of Technical Sciences.

Dissertation for the Degree of Candidate of Technical Sciences, Defended at Inst Power Engineering AS Uzbek SSR. February 21, 1953. (Elektrichestvo, 1958, Nr 6, pp 93-93)







Test of Neoplasmochin for the Treatment of Malaria", Med. Faraz. i Faraz. Bolez., Vol. 17, Ng. 4, pp 517-18, 1948.

ROTEMBURG, S.S.; BUTYAGINA, A.P.; NOVOSELOVA, Ye.I.

Study of clinical and laboratory characteristics in patients with frequent recurrences of malaria. Med.paraz.i paraz.bol. no.5:430-433 S-0 '53.

(MLRA 6:12)

1. Iz klinicheskogo otdeleniya Instituta malyarii, meditsinskoy parazitologii i gel'mintologii Ministerstva zdravookhraneniya SSSR (direktor instituta - professor P.G.Sergiyev, zaveduyushchiy otdeleniyem - professor Ye.M.Tareyev).

(Malarial fever)

ROTENBURG, S.S.

Circulation of antimalarial preparations in the organism.

Sovet med. 17 nc.11:9-12 Nov 1953. CIML 25:5)

1. Of the Clinic (Head -- Prof. Ye. M. Tareyev, Active Member AMS USSR) of the Institute of Malaria, Medical Parasitology and Helminthology (Director -- Prof. P.G. Sergiyev, Active Member USSR), Ministry of Public Health USSR.

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ROTENBURG, S.S.

Effect of a feverish condition on the concentration of quinine in blood and its secretion in urine. Med.paraz. i paraz.bol. 26 no.1: 58-60 Ja-F '57. (MIRA 10:6)

1. Iz klinicheskogo sektora Instituta malyarii, meditsinskoy parazitologii i gel'mintologii Ministerstva zdravookhraneniya SSSR (dir. instituta - prof. P.G.Sergiyev, zav. otdeleniyem - prof. Ye.M.Tareyev).

(FEVER, eff.
on quinine level in blood & on its excretion in urine)
(QUININE, in blood
eff. of fever on level in blood & urine, eff. of fever
on its level)

USSR/Medicine - Malaria, Tertian May/Jun 1947
Medicine - Achrichine

"The Treatment of Malaria Tertians with Acrichine
Isomers," S. S. Rotenberg, Clinical Department
of the Institute of Malaria and Medical Paraeitology, 6 pp

"Mediteinskeya Parazitologiya" No 3

Results of observation of 71 patients, 42 treated
with levo-acrichine and 29 with dextro-acrichine,
ages from 6 to 58 years - 39 women and 32 men, 50
Europeans, 18 Uzbeks and Tadjiks, and 3 Koreans.

USSR / Pharmacology, Toxicology. General Problems.

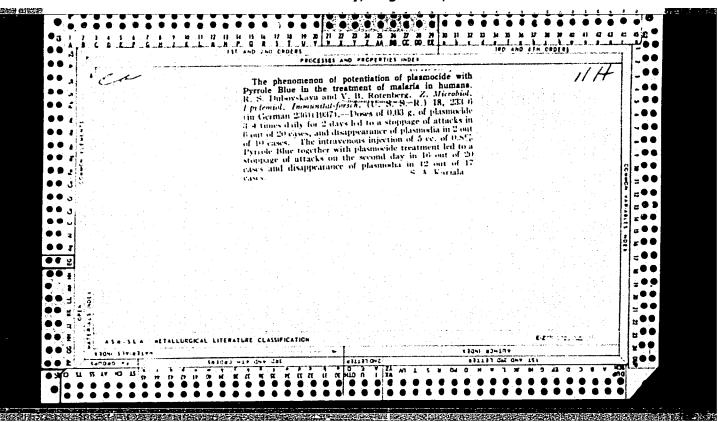
Abs Jour: Ref Zhur-Biol., No 9, 1958, 42197.

Abstract: in the urine was noted. In patients in whom a single dose of Q controlled the attacks and caused the disappearance of the Plasmodium, the maximum O blood concentration was 4.5-25 mg/C. In patients in whom Plasmodlum failed to disappear, the Q concentration was 2.5-9 mg/C. In a patient in whom Q did not produce a cessation of attacks, the maximal Q content in the blood was 3.7 mg./1. However, even very high blood Q concentrations following a single administration of Q did not prevent a recurrence on the 14th day following the administration of the drug.

Card 2/2

ROTENBERG, V.A.; SHABAYEVA, M.F.

K. Marx, F. Engels, and V.I. Lenin on technical education.
Politekh.obuch. no.11:9-17 N '57. (MIRA 10:10)
(Technical education) (Lenin, Vladimir Il'ich, 18-1924)
(Marx, Karl, 1818-1883) (Engels, Friedrich, 1820-1895)



AUTHOR:

Rotenberg, V.G.

119-58-4-8/15

TITLE:

A Device for the Determination of the Quality of the Clockwork Gear-Engagement (Pribor dlya opredeleniya plavnosti zatsepleniya mekhanizma chasov)

PERIODICAL:

Priborostroyeniye, 1958, Nr 4, pp. 19-20 (USSR)

ABSTRACT:

The device is used for measuring the mechanical parts of the clock "Zarya". The quality of the clockwork gear-engagement is determined from the diagrams obtained. The revolving velocity of the escapement wheel, which must be equal at every point of time, is taken as a criterion of quality.

The device consists of five main parts: A connecting part for the clock mechanism, the optical system, tube amplifier, a recording device, and a mechanism for transporting the recording strip. The motor axis of a small motor (n = 2 Um) is connected by way of springs with the escapement wheel of the clock. A very finely focused beam of light is directed upon the gears to be investigated.

This beam, only part of which is allowed to pass through, impinges upon a photoelement. The electron currents thus generated

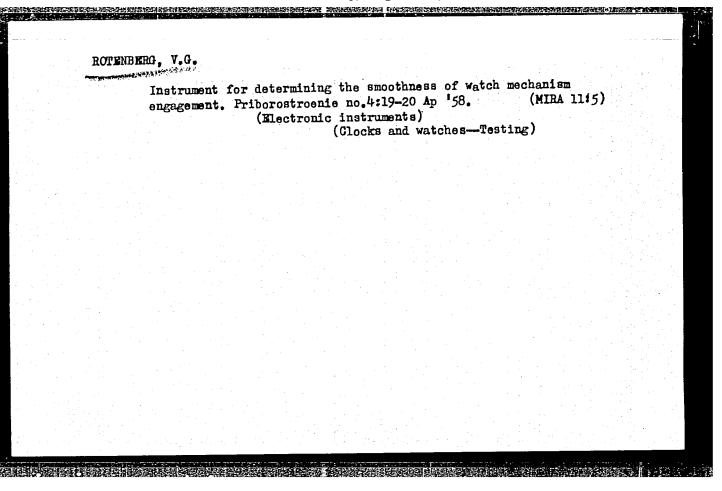
Card 1/2

A Device for the Determination of the Quality of the Clockwork Gear-Engagement

119-58-4-8/15

are then recorded on a bard moving with constant velocity over an electrocic recording device. From the representation by curves (number of maxima) obtained the quality of the engagement can be determined. There are 3 figures.

Card 2/2



ROTEN DERG, V. G.

119-1-12/13

AUTHOR:

TITLE:

Apparatus for the Determination of the Moment of the Balance Rotenberg, V. G. Wheel of a Watch-Mechanism (Pribor dlya opredeleniya momenta na

ankernom kolese chasovogo mekhanizma).

PERIODICAL:

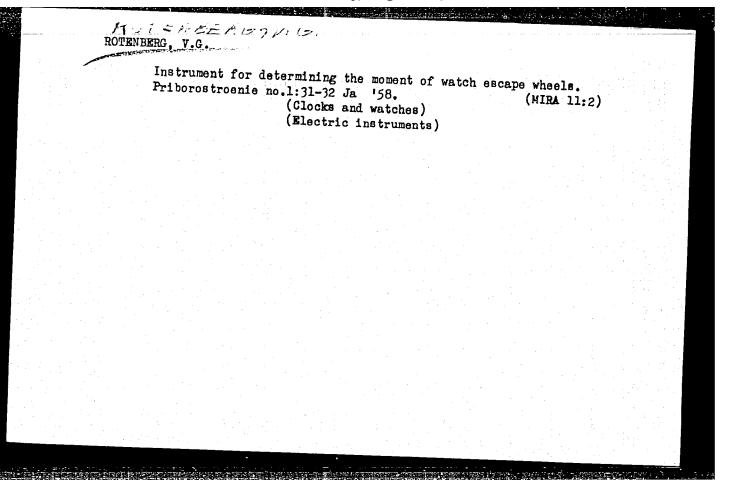
Priborostroyeniye, 1958, Nr 1, pp. 31-32 (USSR)

ABSTRACT:

An apparatus was constructed which permits to measure directly the moment of force of the balance wheel of the "Comet" watch with numerical registration in mg/mm. The use of this apparatus for other watches calls only for small alterations and a resetting of equilibrium. Including the balance wheel to be investigated this apparatus is an electric motor of the condenser type. The condenser- and control windings are mounted on the four-pole stator. They are wound on 4 hard rubber frames and are in pairs connected in series. The pole pieces are made of siliceous steel. On the other side they are connected with a low-carbon iron ring. The balance wheel to be investigated is used as rotor of the motor. The diagram of connections is simple: the control winding of the motor is fed through the potentiometer. The condenser winding is directly fed with 127 through a condenser.

Card 1/2

CIA-RDP86-00513R0



MAKAROWA, Ye.V., endiatent; KOLOMOYTSEVA, I.P., assistent; ROTENBERG, V.S., modern concepts of the blood supply in the spinal cord. Trudy 1-go (MIRA 18:10)

IVANENKO, P.D.; ROTENBERG, V.V.

Culturability of B.Alkalescens in 1957 and 1958 in the Ordzhonikidze District of Kharkov. Lab. delo 7 no.6:26-28 Je '61. (MIRA 14:7)

1. Sanitarno-epidemiologicheskaya stantsiya Ordzhonididzevskogo rayona (glavnyy vrach 8.I.Lantsberg), Khar'kov. (KHARKOV-SHIGELLA ALKALESCENS)

USSR / Human and Animal Morphology - Digestive Tract

S

Abe Jour

: Ref. Zhur. - Biol., No. 22, 1958, No. 101432

Author

: Rotenberg, Ya. A.; Rabovskaya, A. Ye.

Inst Title

: Surgical A_n atomy in Injuries of the Organs of the Peritoneal Cavity.

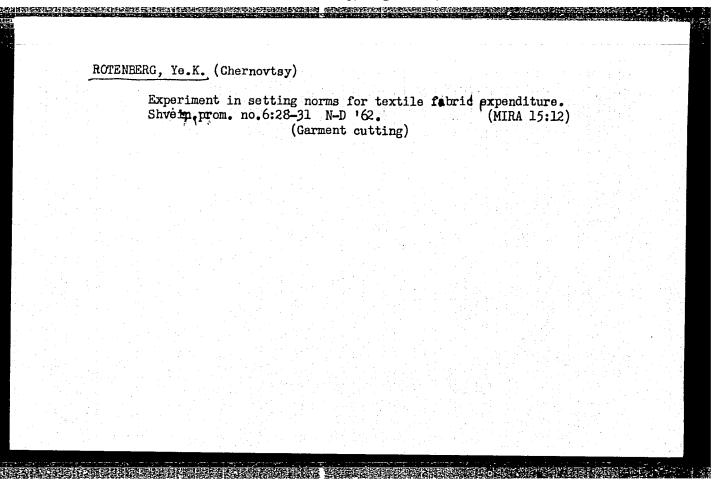
Orig Pub

: In the collection: Neotlozhnaya khirurgiya or-

ganov bryushnoy polosti. Kiev, Gosmedizdat, UkrainianSSR, 1955, 225-232.

Abstract : No abstract.

Card 1/1



Effect of volatile phytoncides on the amount of sulfhydryl

effect of volatile phytoncides on the amount of sulfhydryl groups and the activity of thiolic enzymes in peripheral nerves. Ukr.biokhim.zhur. 21 no.2:196-203 '59. (MIRA 12:6)

1. Department of Biochemistry of the Kiyev Medical Institute. (PHYTONICIDES) (MERCAPTO GROUP) (NERVES)

ROTENETA LEVINA, S.D.

Rectification effect of phthalocyanine. Elektrokhimiis 1 no.8:993-996 Ag '65. (MIRA 18:9)

1. Institut elektrokhimii AN SSSR.

NEISHMALIK, L.I.; ROTHHERG, Z.A.

(vervoltage of ancdic separation of chlorine on graphite.

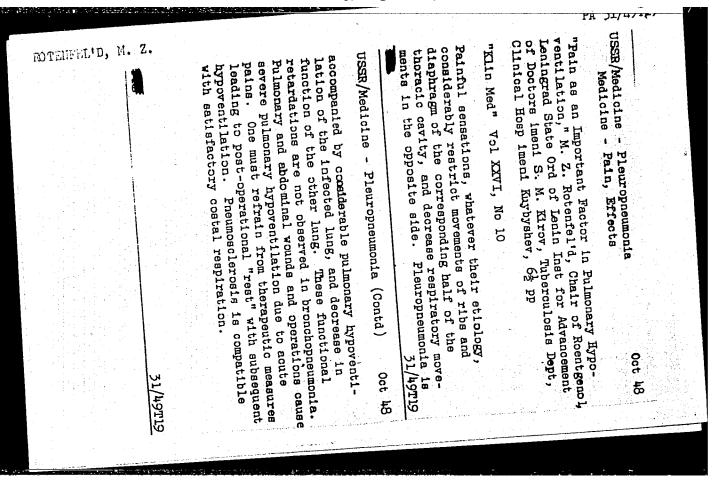
Part 2. Zmr. fiz. khim. 39 10.4:907-912 Ap 165.

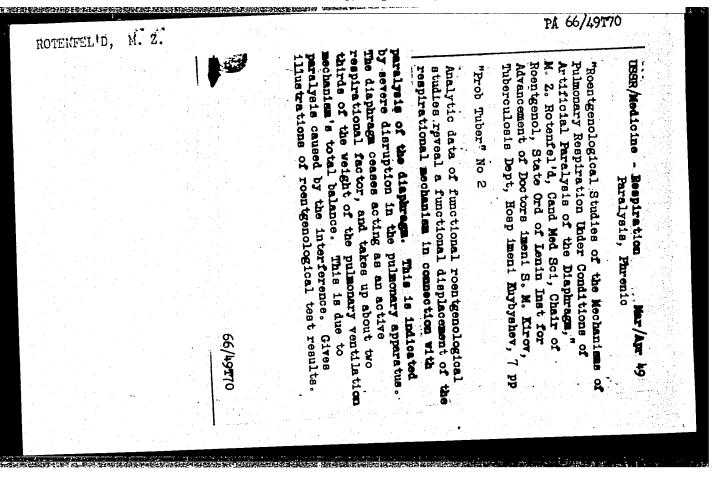
(NIFA 19:1)

1. Submitted Nov. 19, 1963.

63469-65 ENP(e)/EPA(s)-2/EWT(1) (P(z)/EWP(b)/EWA(c) IJP(c)	m)/EWP(1)/EWP(j)/T/EWP(t)/EWP(k)/ D/HW/RM UR/0076/65/039/007/1760/1763
CESSION NR: AP5019796	541.13
THOR: Levina, S. D.; Rotenberg, Z.	A.; Lobanova, K. P.; Astakhova, I. I. 7.55 17.55 ms consisting of powdered metals and organic 55.44
miconductors 6	
OURCE: Zhurnal fizicheskoy khimii,	v. 39, no. 7, 1965, 1760-1763
anine, organic semiconductor, elec	metal, nickel phthalocyanine, cobalt phthalo- tric conductivity, thermoemf
ound phthalocyanine were prepared i	ed nickel and cobalt and the semiconducting com- n a vacuum at 250-400°C by reacting phthalo- als, on the surface of which a phthalocyanine assed into tablets, and the electrical conduc-
itrile vapors with the powdered medium was formed. The powders were pivity σ and thermoemf σ were measur = $\sigma_0 \exp(-\Delta E/kT)$. The thermoemf was	reals, on the surface of which a pressed into tablets, and the electrical conductreed. The data for all samples obey the equation found to be virtually independent of the temporal conduction due to an increase in the carrier elation observed between the conductivity and the

L-63469-65 ACCESSION NR: AP5019796		6 metallic grain i
grains. The observed increased increased increased the reaction by which the the role of the thinnest nistrongly enhanced: as the deeper into the channels an nines (10 ⁻⁵ -10 ⁻⁶ cm); at the probably takes place. Thus films become thinner, and the frumkin for his interest and the second increased and the second increase	the electric current, in passing films of metal phthalocyamine, ase in electrical conductivity we samples were prepared is attricked and cobalt phthalocyamine f temperature rises, the phthalocy d pores of the powder, forming the same time, the breakdown of cell, the surface of the metals increase conductivity rises. "We than ad for reviewing the results."	buted to the fact that ilms in the conduction is anine vapars diffuse b hin films of phthalocya- retain metallic grains eases, the phthalocyanine be Academician A. N.
	ktrokhimii, Akademiya nauk SSSR	(Institute of Electro-
ASSOCIATION: Institut elek		
ASSOCIATION: Institut elektheristry, Academy of Scients SUBMITTED: 24Apr64	ENCL: 00	SUB CODE: EM, SS





ROTENFELD, M. Z.

Roentgenological observations of the mechanism of pulmonary ventilation in extensive superior-posterior thoracoplasty. Khirurgiia, Moskva no.8:68-73 Aug. 1950. (CIML 20:1)

1. Of the Roentgenological Staff (Head -- Prof. D. S. Lindenbraten), Leningrad State Order of Lenin Institute for the Advanced Training of Physicians imeni S. M. Kirov, and of the Tuberculosis Division (Head -- Docent D. L. Berkhman) of the Hospital imeni Kuybyshev.

"Explosive" pulsation of the heart and of large vessels in pneumothorax. Vest.rent.i rad. no.5:24-30 S-0 '53. (MLRA 7:1)

1. Iz tuberkuleznogo ob edineniya Leninskogo rayona Leningrada (glavnyy vrach K.I.Andreyev, nauchnyy rukovoditel' - dotsent D.L.Berkhman). (Pneumothorax) (Pulse)